

L Number	Hits	Search Text	DB	Time stamp
-	0	Kin adj Man adj Wong	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/24 15:48
-	1	Kin near Man near wong	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/24 15:48
-	101	Kin near Man	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/24 15:49
-	2476	hair adj curler	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 14:51
-	5	(hair adj curler) and wong	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 11:59
-	22	(hair adj curler) and kim	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/24 16:03
-	49	retract and curler	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/25 13:55
-	18	retract\$4 near2 curler	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/24 16:04
-	22	retract\$4 near4 curler	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/24 16:04
-	25	"5837972" "5530225"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/25 12:55
-	15	5530225.URPN.	USPAT	2004/05/25 12:56
-	2	5837972.URPN.	USPAT	2004/05/25 13:10
-	13	("1743577" "1869599" "1894751" "2544326" "2859325" "3622746" "3805811" "3859497" "3955064" "4533819" "4581519" "4851641" "4976173").PN.	USPAT	2004/05/25 13:11
-	41	(telescopic or adjustable or retract\$5) near2 curler	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 14:50
-	11	curler and (adjustable near2 length)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/25 14:39
-	1	4366365.URPN.	USPAT	2004/05/25 14:48
-	1	4366365.URPN.	USPAT	2004/05/25 14:49
-	1	5573016.URPN.	USPAT	2004/05/25 15:02
-	6	("2789565" "3161202" "3204646" "4108183" "4316476" "5033487").PN.	USPAT	2004/05/25 15:02
-	1	4366365.URPN.	USPAT	2004/05/26 13:44
-	5	4797533.URPN.	USPAT	2004/05/26 13:45
-	104	132/265	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/26 15:32
-	0	6363946.URPN.	USPAT	2004/05/26 15:23

-	19	("3593724" "3683940" "3692034" "3713455" "3937233" "4037612" "4135525" "4361159" "4465085" "4524788" "4644965" "4699160" "4742835" "4844103" "4993441" "5020552" "5144968" "5201329" "5622193").PN.	USPAT	2004/05/26 15:23
-	1	5622193.URPN.	USPAT	2004/05/26 15:29
-	4	("3161202" "3205901" "3334638" "4215710").PN.	USPAT	2004/05/26 15:29
-	37	(heat\$5) same (hair near2 curl\$3) same (retract or telescopic or adjustable or retriv\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/26 15:35
-	90	heated adj hair adj curler	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/26 15:44
-	0	a45d/\$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/26 15:43
-	643	A45D001/04	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/26 15:45
-	7973	A45D00\$/\$	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/26 15:45
-	1818	A45D00\$/\$ and curler	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/26 15:45
-	3270	A45D00\$/\$ and curl\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/26 15:45
-	1697	(A45D00\$/\$ and curl\$3) and heat\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/26 15:46
-	548	((A45D00\$/\$ and curl\$3) and heat\$3) and (extend or telescopic or adjust)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/26 15:47
-	10	3617695.URPN.	USPAT	2004/05/26 15:56
-	2476	(hair adj curler)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 11:59
-	668	(hair adj curler) same heat\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 12:00
-	578	(hair adj curler) with heat\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 12:00
-	668	((hair adj curler) same heat\$3) or ((hair adj curler) with heat\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 12:12
-	1	"20116021"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 12:17
-	1	2002-091463.NRAN.	DERWENT	2004/05/27 12:15
-	0	de20116021	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 12:16

-	1	de with "20116021"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 12:16
-	1	21136.URPN.	USPAT	2004/05/27 12:33
-	4	4958648.URPN.	USPAT	2004/05/27 14:43
-	3	5694954.URPN.	USPAT	2004/05/27 14:46
-	25	("1892107" "1894431" "1926987" "1957049" "2720207" "3232300" "3523542" "3590829" "3871388" "4022225" "4022226" "4270555" "4456020" "4524788" "4584462" "4714820" "4856542" "4911186" "5000200" "5020552" "5024244" "5186187" "5293884" "5294777" "5411040").PN.	USPAT	2004/05/27 14:47
-	38	132/265	USOCR	2004/05/27 15:03
-	4	2892460.URPN.	USPAT	2004/05/27 14:58
-	5	3498300.URPN.	USPAT	2004/05/27 14:59
-	4	4576188.URPN.	USPAT	2004/05/27 15:01
-	70486	219/\$.ccls.	USPAT	2004/05/27 15:07
-	222	219/\$.ccls. and curler	USPAT	2004/05/27 15:13
-	0	hair adj curler near adjustable near length	USPAT	2004/05/27 15:14
-	0	hair adj curler near adjustable near length	USPAT	2004/05/27 15:14
-	7	hair adj curler near adjustable	USPAT	2004/05/27 15:15
-	3	"5837972"	USPAT	2004/05/27 15:22
-	13	("1743577" "1869599" "1894751" "2544326" "2859325" "3622746" "3805811" "3859497" "3955064" "4533819" "4581519" "4851641" "4976173").PN.	USPAT	2004/05/27 15:15
-	13	("1743577" "1869599" "1894751" "2544326" "2859325" "3622746" "3805811" "3859497" "3955064" "4533819" "4581519" "4851641" "4976173").PN.	USPAT	2004/05/27 15:16
-	1	4641010.URPN.	USPAT	2004/05/27 15:21
-	14	"electric hair curler"	USPAT	2004/05/27 15:21
-	28	5124532.URPN.	USPAT	2004/05/27 15:22
-	15	(extendable or extended or adjustable or telescopic) near (heater or curler or roller) and electric and heat	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 15:23
-	507	(extendable or extended or adjustable or telescopic) near (curler or roller) and electric and heat	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 16:55
-	312	(extendable or extended or adjustable or telescopic) near (curler or roller) and electric and heat	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 16:56
-	1	(extendable or extended or adjustable or telescopic) near hair near (curler or roller) and electric and heat	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/27 16:57
-	11	(extendable or extended or adjustable or telescopic) near (curler or roller) and electric and heat and hair	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/28 06:53

222 Hair heaters

This subclass is indented under subclass 221. Subject matter wherein the tools or instruments under the definition of ... are for hair heating, treating or curling purposes, are formed into systems which utilize a plurality of tools or instruments for heating, treating or curling the hair with or without voltage or current control of the system, or wherein the tools, instruments or the system have manual or automatic connection and/or disconnection devices.

(1) Note. If in the claim the hair is included in the electrical circuit of the tool, instrument or the system, or the hair somehow is held or contained by the tool or instrument, the claim is properly classified in Class 132, Toilet. See Class 132, subclass 7 for all hair treating methods involving the hair on the scalp and subclasses 31+ for crimpers or curlers having crimping jaws, winding forms or mandrels which include rotating means and hair clamping jaws.

(2) Note. Included in this subclass are instruments to produce a vapor which will contact the hair for hair treating purposes.

SEE OR SEARCH THIS CLASS, SUBCLASS:

- 156, for means for electrically heating metal rods or bars.
- 271+, for vaporizer means where the vapor is not used specifically for heat transfer or for hair heating, treating or curling purposes.
- 284+, for electrolytic liquid heaters where the liquid to be heated forms part of the electric heating circuit.
- 520+, for housings, casing, and support means for heating units which include means to hold or support the material to be heated, flexible casings, housings specially formed or adapted to fit the material to be heated, and hinged or separable compartments.

SEE OR SEARCH CLASS:

- 15, Brushing, Scrubbing, and General Cleaning, subclasses 160 and 504 for brushes with heating means.
- 30, Cutlery, for hand held cutlery implements for cutting hair, particularly subclasses 195+ for hair shears and thinners. See the notes under subclass 223 of this class.
- 34, Drying and Gas or Vapor Contact With Solids, subclass 283, for processes for drying human hair while on the head and subclasses 96+ for apparatus for drying the hair on the head which includes structure to adapt the apparatus to the head of a person.
- 132, Toilet, subclass 7 for methods of treating the hair on the scalp which includes cutting, softening or straightening and subclass 118 for heated combs or combs combined with additional features.
- 604, Surgery, subclass 23 for applying gas to the body; and subclass 291 for heating or cooling material applied to or removed from the skin.
- 607, Surgery: Light, Thermal, and Electrical Application, subclass 79 for brushes and combs for thermal applications.

528 **Flexible or resilient (e.g., warming pad)**

This subclass is indented under subclass 520. Subject matter wherein the significant housing, casing or support structure is pliable or capable of being flexed or bent without permanent distortion.

SEE OR SEARCH THIS CLASS, SUBCLASS:

456, for heater with a support adjustable to the shape of material to be heated.

535, for heating unit specially formed to fit material to be heated.

549, for heating element support of flexible material.

SEE OR SEARCH CLASS:

138, Pipes and Tubular Conduits, subclass 35 for portable pipe heaters.

338, Electrical Resistors, subclasses 210+ for flexible or folding resistors and subclass 259 for resistors, per se, combined with a round, braided or woven casing or housing.

607, Surgery: Light, Thermal, and Electrical Application, subclass 149 for heating devices for the human body, particularly for bands and belts.